REMARKS/ARGUMENTS

This amendment responds to the Notice of Non-Compliant Amendment and to the Office

Action dated January 5, 2009, in which the Examiner required information, objected to the

Specification, rejected claims 5 and 7 under 35 U.S.C. § 101, and rejected claims 1-7 under 35

U.S.C. § 102(b).

In the Office Action, the Examiner requested Applicants identify pending or abandoned

applications that disclose similar subject matter filed by at least one of the inventors or assigned

to the same assignee as the current application. The Applicants cannot readily obtain this

required information. However, attached to this response is a copy of a search done for the two

inventors of the current application. Mr. Watanabe is listed as inventor on 25 patents, while Mr.

Kondo is listed as inventor in 370 patents. Further information is currently not readily

obtainable.

As indicated above, the Specification has been amended for the priority information.

Applicants respectfully request the Examiner withdraws the objection to the Specification.

As indicated above, claims 5 and 7 have been amended to be directed to statutory subject

matter. Therefore, Applicants respectfully request the Examiner withdraws the rejection to

claims 5 and 7 under 35 U.S.C. § 101.

Claim 1 claims an apparatus for processing an image signal, claim 5 claims a method

therefore, claim 6 claims a computer-readable medium, and claim 7 claims a program. The

apparatus, method, medium and program include converting a first image signal, constituted by

plural items of pixel data, into a second image signal constituted of plural items of pixel data.

Plural items of pixel data located in a space directional periphery with respect to a position

obtained by performing motion compensation on a target position are selected by using motion

vector stored in a plurality of frame memory portions together with the pixel data, from the frame memory portions in which frames before and after the current frame are stored.

By selecting plural items of pixel data by using motion vector corresponding to the target pixel, as claimed in claims 1 and 5-7, the claimed invention provides an apparatus, method, medium and program which can convert an image signal containing coding noise into an image signal from which the coding noise is removed. The prior art does not show, teach or suggest the invention as claimed in claims 1 and 5-7.

Claims 1-7 were rejected under 35 U.S.C. § 102(b) as being anticipated by *Kondo, et al.* (JP 2002-223167).

Applicants respectfully traverse the Examiner's rejection of claims 1-7 under 35 U.S.C. § 102(b). The claims have been reviewed in light of the Office Action, and for reasons set forth below, Applicants respectfully request the Examiner withdraw the rejection to the claims and allows the claims to issue

Kondo, et al. appears to disclose (in corresponding U.S. Application Publication No. 2003/0152165) in FIG. 3 a tap generation circuit 31 which generates a prediction tap, used for a prediction calculation executed in a prediction section 35 from the first decoded data, the first additional information, the second decoded data and the second additional information. More specifically, the tap generation circuit 31 extracts first decoded data and second decoded data that are closer in time or in space aimed-at data that is aimed at because it is to be improved in quality, also extracts first additional information and second additional information used for decoding that first decoded data and that second decoded data and then sends extracted data (information) to the prediction section 35 as the prediction tap [0069]. The prediction section 35 obtains the prediction tap output from the tap generation section 31 and the tap coefficient output

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from the coefficient memory 34, uses the prediction tap and the tap coefficients to perform a

linear prediction calculation and obtains and outputs data acquired by improving the quality of

the aimed-at data, that is, a prediction value of the aimed-at data having higher quality [0074].

Thus, *Kondo, et al.* merely discloses a tap generation section 31 which extracts a plurality

of pixel data located in time or space directional periphery. However, nothing in *Kondo, et al.*

shows, teaches or suggests selecting pixel data from different frames by using motion vector

corresponding to a target pixel as claimed in claims 1 and 5-7. In other words, nothing in *Kondo,*

et al. shows, teaches, or suggests selecting plural items of pixel data located in a space

directional periphery with respect to a position obtained by performing motion compensation on

the target position by using the motion vector stored in the plurality of frame memory portions

together with the pixel data, from the frame memory portions in which frames before and after

the current frame are stored as claimed in claims 1 and 5-7. Rather, *Kondo, et al.* only discloses

selecting pixels but does <u>not</u> use a motion vector to select pixel data or obtain position of a target

pixel by performing motion compensation.

Applicants respectfully point out that selecting pixel data from different frames by using

motion vector corresponding to the target pixel is shown in FIG. 8 of Applicants' Specification.

Nowhere in *Kondo, et al.*, does *Kondo, et al.* show, teach or suggest using motion vector or

performing motion compensation such as shown in FIG. 8 of Applicants application.

Additionally, FIG. 8 in *Kondo, et al.* merely discloses an example structure of an encoder

encoding an audio signal [0132]. FIG. 9 shows a decoder used when the encoder 1 is configured

for audio encoding [0163]. FIG. 10 shows an example of an encoder 1 used for encoding still-

picture image data by a JPEG method [0170]. FIG. 11 shows the structure of a decoder used

when the encoder is configured to encode still-picture image data [0176]. FIG. 12 shows an

example of the structure of an encoder used when it encodes motion-picture image data by

MPEG2 method [0180]. FIG. 13 shows the structure of a decoding section 21 used when the

encoder is configured to encode motion-picture image data by MPEG2 [0188]. The encoder of

FIG. 12 includes a motion compensation circuit 140 to output a reference image [0187]. The

decoder of FIG. 13 also includes a motion compensation circuit 156 which outputs a reference

image [0192].

Thus, *Kondo, et al.* merely discloses using motion compensation circuits 140 and 156 in

order to output a reference image when encoding/decoding a moving image of MPEG2. Nothing

in *Kondo, et al.* shows, teaches or suggests using motion compensation for data selection as

claimed in claims 1 and 5-7. Rather, *Kondo, et al.* only discloses motion compensation used

during MPEG coding or decoding. In other words, nothing in *Kondo, et al.* shows, teaches or

suggests selecting plural items with respect to a position obtained by performing motion

compensation on a target position by using the motion vectors as claimed in claims 1 and 5-7.

Since nothing in *Kondo, et al.* shows, teaches or suggests selecting pixel data from

different frames using motion vectors corresponding to the target pixel as claimed in claims 1

and 5-7, Applicants respectfully request the Examiner withdraws the rejection to claims 1 and 5-

7 under 35 U.S.C. § 102(b).

Claims 2-4 depend from claim 1 and recite additional features. Applicants respectfully

submit that claims 2-4 would not have been anticipated by *Kondo, et al.* within the meaning of

35 U.S.C. § 102(b), at least for the reasons as set forth above. Therefore, Applicants respectfully

request the Examiner withdraws the rejection to claims 2-4 under 35 U.S.C. § 102(b).

The prior art of record, which is not relied upon, is acknowledged. The references taken

singularly or in combination do not anticipate or make obvious the claimed invention.

Thus, it now appears that the application is in condition for a reconsideration and allowance. Reconsideration and allowance at an early date are respectfully requested.

CONCLUSION

If for any reason the Examiner feels that the application is not now in condition for allowance, the Examiner is requested to contact, by telephone, the Applicants' undersigned attorney at the indicated telephone number to arrange for an interview to expedite the disposition of this case.

In the event that this paper is not timely filed within the currently set shortened statutory period, Applicants respectfully petition for an appropriate extension of time. The fees for such extension of time may be charged to Deposit Account No. 50-0320.

In the event that any additional fees are due with this paper, please charge our Deposit Account No. 50-0320.

Respectfully submitted,

FROMMER LAWRENCE & HAUG LLP
Attorneys for Applicants

Date: April 23, 2009   By:
                                        Ellen Marcie Emas
                                        Reg. No. 32,131
                                        Tel. (202) 292-1530

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Jump To

Refine Search   IN/watanabe AND AN/sony and in/tsutomu andnot in/

PAT. NO.		Title
1	7,467,083 T	Data processing apparatus
2	7,412,384 T	Digital signal processing method, learning method, apparatuses for them, and program storage medium
3	7,397,512 T	Information signal processing apparatus, picture information converting apparatus, and picture displaying apparatus
4	7,366,660 T	Transmission apparatus, transmission method, reception apparatus, reception method, and transmission/reception apparatus
5	7,336,832 T	Processor and processing method for an image signal, image display apparatus, generation apparatus and generation method for coefficient data used therein, program for executing each of these methods, and computer-readable medium recording the program
6	7,283,961 T	High-quality speech synthesis device and method by classification and prediction processing of synthesized sound
7	7,269,559 T	Speech decoding apparatus and method using prediction and class taps
8	7,127,736 T	Content processing apparatus and content processing method for digest information based on input of a content user
9	7,113,225 T	Information signal processing apparatus, picture information converting apparatus, and picture displaying apparatus
10	7,082,220 T	Data processing apparatus
11	7,068,845 T	Information processing apparatus using class-classification adaptive processing
12	7,002,587 T	Semiconductor device, image data processing apparatus and method
13	6,990,475 T	Digital signal processing method, learning method, apparatus thereof and program storage medium
14	6,912,014 T	Image processing device and method, and recording medium

15 6,907,413   Digital signal processing method, learning method, apparatuses for them, and program storage medium

16 6,597,737 **T** Motion determining apparatus, method thereof, and picture information converting apparatus

17 6,591,398 **T** Multiple processing system

18 6,483,546 **T** Picture information converting apparatus, picture information converting method, and television receiver

19 6,483,545 **T** Information signal processing apparatus, picture information converting apparatus, and picture displaying apparatus

20 6,330,344 **T** Image processing device and method employing motion detection to generate improved quality image from low resolution image

21 6,307,560 **T** Classified adaptive spatio-temporal format conversion method and apparatus

22 6,201,833 **T** Motion determining apparatus, method thereof, and picture information converting apparatus

23 6,195,463 **T** Multiresolution image processing and storage on a single chip

24 5,978,324 **T** Disc recording/reproducing unit elastically supported on a main body of the apparatus including a lock mechanism for the elastic support device

25 5,828,633 **T** Disc recording and/or reproducing changer with disc transporting mechanism and disc detector

26 5,644,558 **T** Recording and/or reproducing apparatus for disc-shaped recording medium

27 5,370,076 **T** Method of producing single crystal of KTiOPO.sub.4

28 4,731,777 **T** Optical disk player

29 4,592,039 **T** Disc player

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Hits 1 through 50 out of 370

IN/"kondo" AND AN/sony and in/tetsujiro

	PAT. NO.		Title
1	7,499,895	**T**	Signal processor
2	7,495,707	**T**	Signal processing apparatus and method, recording medium, and program
3	7,488,078	**T**	Display apparatus, image processing apparatus and image processing method, imaging apparatus, and program
4	7,486,325	**T**	Method and apparatus for taking an image, method and apparatus for processing an image, and program and storage medium
5	7,486,253	**T**	Transmitting device and transmitting method, receiving device and receiving method, transmitting/receiving device and transmitting/receiving method, recorded medium, and signal
6	7,483,565	**T**	Image processing device and method, learning device and method, recording medium, and program
7	7,483,079	**T**	Signal processing apparatus, signal processing method, storage medium, and program
8	7,477,801	**T**	Information processing apparatus
9	7,477,786	**T**	Data conversion device, data conversion method, learning device, learning method, program, and recording medium
10	7,477,761	**T**	Image processing apparatus and method, and image-capturing apparatus
11	7,477,305	**T**	Imaging device and imaging method
12	7,477,289	**T**	Image processing apparatus and method, and image pickup apparatus
13	7,474,806	**T**	Information processing apparatus
14	7,467,083	**T**	Data processing apparatus
15	7,460,178	**T**	Image processing apparatus and image processing method
16	7,454,083	**T**	Image processing apparatus, image processing method, noise-amount estimate

apparatus, noise-amount estimate method, and storage medium

17 7,453,936 **T** Transmitting apparatus and method, receiving apparatus and method, program and recording medium, and transmitting/receiving system

18 7,450,764 **T** Image processing device and method, learning device and method, recording medium, and program

19 7,447,378 **T** Image processing device, method, and program

20 7,443,590 **T** Imaging apparatus and method, and method for designing imaging apparatus

21 7,440,029 **T** Apparatus and method for processing informational signal

22 7,434,943 **T** Display apparatus, image processing apparatus and image processing method, imaging apparatus, and program

23 7,424,130 **T** Coding apparatus and method, decoding apparatus and method, data processing system, storage medium, and signal

24 7,424,057 **T** Data format transcoding apparatus and associated method

25 7,422,332 **T** Wall structure

26 7,412,384 **T** Digital signal processing method, learning method, apparatuses for them, and program storage medium

27 7,412,075 **T** Picture processing apparatus for processing picture data in accordance with background information

28 7,409,074 **T** Information processing apparatus and system using pixel data

29 7,406,712 **T** Communication apparatus, communication method, and recording medium used therewith

30 7,403,235 **T** Integrated circuit and information signal processing apparatus having multiple processing portions

31 7,401,177 **T** Data storage device, data storage control apparatus, data storage control method, and data storage control program

32 7,397,512 **T** Information signal processing apparatus, picture information converting apparatus, and picture displaying apparatus

33 7,394,812 **T** Apparatus and method for processing informational signal

34 7,385,650 **T** Device and method for processing image signal, program for performing the method, and computer-readable medium for recording the program

35 7,382,830 **T** Apparatus for generating motion control signal from image signal

36 7,379,878 **T** Information encoding apparatus and method, information decoding apparatus and method, recording medium utilizing spectral switching for embedding additional information in an audio signal

37 7,373,431 **T** Signal processing apparatus, signal processing method, signal processing system, program and medium

38 7,372,997 **T** Data conversion device, data conversion method, learning device, learning method, program and recording medium

39 7,369,142 **T** Image-displaying apparatus and method for obtaining pixel data therefor

40 7,366,660 **T** Transmission apparatus, transmission method, reception apparatus, reception method, and transmission/reception apparatus

41 7,352,917 **T** Image processing apparatus and method, and image pickup apparatus

42 7,343,027 **T** Image processing apparatus, image signal generation method, information recording medium, and image processing program

43 7,342,601 **T** Communication system, communication device, seating-order determination device,

communication method, recording medium, group-determination-table generating method, and group-determination-table generating device

44 7,340,106 **T** Image processing apparatus and method, and image-capturing apparatus

45 7,340,097 **T** Image processing apparatus, image processing method, and recording medium
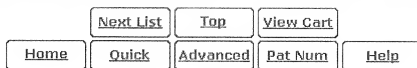
46 7,339,617 **T** Image providing device and its providing method, image processing device and processing method, and storage medium

47 7,336,832 **T** Processor and processing method for an image signal, image display apparatus, generation apparatus and generation method for coefficient data used therein, program for executing each of these methods, and computer-readable medium recording the program

48 7,336,829 **T** Data processing apparatus and method and recording medium

49 7,336,818 **T** Image processing device and method, and image-taking device

50 7,328,447 **T** Optical recording medium manufacturing device, method, optical recording medium, reproduction device, method, recording device, and method

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[Prev. 50 Hits]

[Next 50 Hits]

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[Refine Search]   IN/"kondo" AND AN/sony and in/tetsujiro

	PAT. NO.		Title
51	7,315,654	**T**	Image processing apparatus
52	7,315,653	**T**	Image processing apparatus
53	7,313,386	**T**	Data processing system and method, communication system and method, and charging device and method
54	7,305,136	**T**	Image processing apparatus
55	7,298,905	**T**	Image processing apparatus and method, communication apparatus, communication system and method, and recording medium
56	7,289,671	**T**	Data processing apparatus and method and recording medium
57	7,286,184	**T**	Information signal processing device, information signal processing method, image signal processing device and image display device using it, coefficient type data creating device used therein and creating method, coefficient data creating device and creating method, and information providing medium
58	7,283,961	**T**	High-quality speech synthesis device and method by classification and prediction processing of synthesized sound
59	7,283,678	**T**	Data processing apparatus and method and recording medium
60	7,283,173	**T**	Coefficient seed data or coefficient data production device used in image display apparatus, method for producing coefficient seed data or coefficient data used in image display apparatus, program therefor, and computer-readable medium for storing the same
61	7,280,152	**T**	Coefficient seed data or coefficient data production device used in image display apparatus, method for producing coefficient seed data or coefficient data used in

image display apparatus, program therefor, and computer-readable medium for storing the same

62 7,277,894 **T** Control system, control apparatus, control method, storage medium, and program

63 7,269,559 **T** Speech decoding apparatus and method using prediction and class taps

64 7,262,808 **T** Apparatus and method for generating coefficients, apparatus and method for generating class configuration, informational signal processing apparatus, and programs for performing these methods

65 7,260,260 **T** Image processing apparatus and method

66 7,248,599 **T** Signal processing apparatus

67 7,245,774 **T** Image processing apparatus

68 7,240,128 **T** Data processing apparatus and data processing method that generates a final class code

69 7,233,364 **T** Apparatus and method for generating coefficient data, apparatus and method for processing information signal using the same, apparatus and method for obtaining coefficient data used therefor, and information providing medium

70 7,221,863 **T** Image processing apparatus and method, and program and recording medium used therewith

71 7,221,778 **T** Image processing apparatus and method, and image pickup apparatus

72 7,218,791 **T** Image processing device and method, and imaging device

73 7,212,245 **T** Information signal processing device, information signal processing method, image signal processing device and image display device using it, coefficient type data creating device used therein and creating method, and information providing medium

74 7,209,595 **T** Image processing apparatus, image processing method, noise-amount estimate apparatus, noise-amount estimate method, and storage medium

75 7,206,452 **T** Data processing apparatus and method and recording medium

76 7,206,018 **T** Signal processing method and apparatus and recording medium

77 7,181,080 **T** Image processing apparatus and method, and image pickup apparatus

78 7,174,051 **T** Information processing apparatus for adaptive processing circuits

79 7,155,057 **T** Apparatus for and method of processing image and apparatus for and method of encoding image

80 7,154,541 **T** Image processing device

81 7,146,286 **T** Monitoring system, information processing apparatus and method, recording medium, and program

82 7,146,023 **T** Image processor, image signal generating method, information recording medium, and image processing program

83 7,139,019 **T** Image processing device

84 7,136,942 **T** Data processing apparatus and data processing method that generates a final class code

85 7,136,527 **T** Apparatus and method for extracting artificial images and program for performing the method

86 7,133,562 **T** Image processing apparatus

87 7,130,464 **T** Image processing device

88 7,127,736 **T** Content processing apparatus and content processing method for digest information based on input of a content user

89 7,113,225 **T** Information signal processing apparatus, picture information converting apparatus, and picture displaying apparatus

90 7,102,503 **T** Monitoring system, method and apparatus for processing information, storage medium, and program

91 7,088,768 **T** Data processing apparatus and data processing method

92 7,085,318 **T** Image processing system, image processing method, program, and recording medium

93 7,085,172 **T** Data storage apparatus, data storage control apparatus, data storage control method, and data storage control program

94 7,082,220 **T** Data processing apparatus

95 7,080,312 **T** Data transformation for explicit transmission of control information

96 7,076,097 **T** Image processing apparatus and method, communication apparatus, communication system and method, and reorded medium

97 7,072,829 **T** Speech recognition from concurrent visual and audible inputs

98 7,072,491 **T** Integrative encoding system and adaptive decoding system

99 7,072,240 **T** Apparatus for processing data, memory bank used therefor, semiconductor device, and memory for reading out pixel data

100 7,071,990 **T** Display apparatus, display method, program, storage medium, and display system

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[Next 50 Hits]

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[Refine Search]   IN/"kondo" AND AN/sony and in/tetsujiro

PAT. NO.		Title
101	7,071,930 T	Active matrix display device, video signal processing device, method of driving the active matrix display device, method of processing signal, computer program executed for driving the active matrix display device, and storage medium storing the computer program
102	7,069,187 T	Individual authentication apparatus, individual authentication method, and computer program
103	7,068,845 T	Information processing apparatus using class-classification adaptive processing
104	7,061,539 T	Information signal processing device, information signal processing method, image signal processing device, image display comprising the same, and information providing medium
105	7,061,538 T	Image-information converting apparatus and method, image displaying apparatus and method, coefficient calculating apparatus and method, coefficient-data storing apparatus, apparatus and method for detecting part where picture quality is degraded, recording medium, and program
106	7,050,633 T	Image processing apparatus and method, and storage medium therefor
107	7,050,092 T	Signal processing apparatus, signal processing method, and presentation system
108	7,047,325 T	Data processing apparatus, data processing method, and recording medium therefor
109	7,042,513 T	Information signal processing device, information signal processing method, image signal processing device, image signal processing method and image displaying method using it, coefficient kind data generating device and method used therein, and computer readable medium and program

110 7,038,729 **T** Device and method for producing coefficient seed data used for format conversion, and information-providing medium therefore

111 7,035,471 **T** Data processing device and data processing method and recorded medium

112 7,031,522 **T** Image processing apparatus and method, and storage medium therefor

113 7,031,513 **T** Data processing apparatus and data processing method

114 7,031,384 **T** Apparatus for generating motion control signal from image signal

115 7,024,050 **T** Image processing apparatus

116 7,024,038 **T** Image processing apparatus and method, and storage medium therefor

117 7,010,737 **T** Method and apparatus for error data recovery

118 7,009,579 **T** Transmitting apparatus and method, receiving apparatus and method, transmitting and receiving apparatus and method, record medium and signal

119 7,003,163 **T** Image processing apparatus

120 7,002,587 **T** Semiconductor device, image data processing apparatus and method

121 6,999,633 **T** Data processing apparatus and method

122 6,996,282 **T** Encoding apparatus, encoding method, decoding apparatus, decoding method, and record medium

123 6,996,184 **T** Image-data processing apparatus

124 6,990,489 **T** Information processing apparatus, system and method, and recording medium

125 6,990,475 **T** Digital signal processing method, learning method, apparatus thereof and program storage medium

126 6,990,244 **T** Integrative encoding system and adaptive decoding system

127 6,987,884 **T** Image processing device and method, and recorded medium

128 6,987,539 **T** Image signal conversion apparatus, method and display for image signal conversion based on selected pixel data

129 6,985,186 **T** Coefficient data generating apparatus and method, information processing apparatus and method using the same, coefficient-generating-data generating device and method therefor, and information providing medium used therewith

130 6,985,155 **T** Memory device and image processing apparatus using same

131 6,975,771 **T** Coding device and method using a strong correlation noted pixel selection

132 6,975,770 **T** Image compression and decompression with predictor selection based on embedding data

133 6,970,605 **T** Image processing apparatus, image processing method, noise-amount estimate apparatus, noise-amount estimate method, and storage medium

134 6,970,508 **T** Image coding and decoding using mapping coefficients corresponding to class information of pixel blocks

135 6,968,074 **T** Image processing device, image processing method, and storage medium

136 6,965,697 **T** Coding apparatus and method, decoding apparatus and method, data processing system, storage medium, and signal

137 6,965,693 **T** Image processor, image processing method, and recorded medium

138 6,963,999 **T** Source coding to provide for robust error recovery during transmission losses

139 6,956,960 **T** Image processing device, image processing method, and storage medium

140 6,940,996 **T** Image processing apparatus, image processing method, and storage medium

141 6,934,414 **T** Image processing apparatus, image processing method, and recording medium **T**

142 6,931,156   Coding apparatus and method, decoding apparatus and method, data processing
system, storage medium and signal

143 6,912,014 **T** Image processing device and method, and recording medium

144 6,907,413 **T** Digital signal processing method, learning method, apparatuses for them, and
program storage medium

145 6,904,172 **T** Coding device and method, and decoding device and method

146 6,901,027 **T** Apparatus for processing data, memory bank used therefor, semiconductor device,
and method for reading out pixel data

147 6,873,738 **T** Hierarchical image processor for encoding or decoding, and memory on the same chip

148 6,870,944 **T** Image processing apparatus, image processing method, and storage medium

149 6,864,997 **T** Picture encoding apparatus and method

150 6,859,493 **T** Apparatus and method for the recovery of compression constants in the encoded
domain

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| Prev. 50 Hits |

| Next 50 Hits |

| Jump To |

| Refine Search | IN/"kondo" AND AN/sony and in/tetsujiro

PAT. NO.		Title
151	6,859,155 T	Data processing device
152	6,836,266 T	Active matrix type display
153	6,831,992 T	Data processing apparatus and data processing method, decoding apparatus and method thereof, and recording medium
154	6,804,372 T	Coding apparatus and method, decoding apparatus and method, data processing system, storage medium, and signal
155	6,778,998 T	Signal acquiring apparatus, database, database system, signal presenting system, and signal acquiring, storing, and presenting system
156	6,766,059 T	Image processing apparatus
157	6,757,443 T	Picture processing apparatus, picture processing method, learning apparatus, and learning method
158	6,757,435 T	Apparatus for and method of processing image and apparatus for and method of encoding image
159	6,754,371 T	Method and apparatus for past and future motion classification
160	6,738,492 T	Coding apparatus and method, decoding apparatus and method, data processing system, storage medium, and signal
161	6,728,310 T	Data processing apparatus and data processing method
162	6,718,299 T	Information processing apparatus for integrating a plurality of feature parameters
163	6,718,073 T	Arithmetic device, and converter, and their methods
164	6,714,252 T	Image signal processing apparatus and digital signal processing method

165 6,707,502 **T** Apparatus and method for converting a field frequency of a picture signal

166 6,690,831 **T** Encoding device and encoding method, decoding device and decoding method, information processing device and information processing method as well as a medium

167 6,687,388 **T** Picture processing apparatus

168 6,678,405 **T** Data processing apparatus, data processing method, learning apparatus, learning method, and medium

169 6,678,330 **T** Image processing apparatus, image processing method, data-processing apparatus, data processing method, and storage medium

170 6,678,328 **T** Information processor

171 6,668,070 **T** Image processing device, image processing method, and storage medium

172 6,658,155 **T** Encoding apparatus

173 6,650,256 **T** Data processing apparatus, data processing method, program, program recording medium, embedded data, and data recording medium

174 6,646,684 **T** Image conversion device and method

175 6,636,640 **T** Integrative encoding system and adaptive decoding system

176 6,631,242 **T** Apparatus for recording and reproducing digital picture data

177 6,621,936 **T** Method and apparatus for spatial class reduction

178 6,611,562 **T** Image processing device and image processing method, and computer-readable recorded medium

179 6,608,644 **T** Communication system

180 6,606,111 **T** Communication apparatus and method thereof

181 6,597,737 **T** Motion determining apparatus, method thereof, and picture information converting apparatus

182 6,591,398 **T** Multiple processing system

183 6,581,170 **T** Source coding to provide for robust error recovery during transmission losses

184 6,571,142 **T** Data processing apparatus, data processing method, and medium

185 6,567,531 **T** Image processing apparatus, image processing method, and providing medium

186 6,564,180 **T** Data processing apparatus and data processing method

187 6,556,725 **T** Data processing device and data order converting method

188 6,556,209 **T** Memory apparatus of digital video signal

189 6,553,381 **T** Time-varying randomization for data synchronization and implicit information transmission

190 6,549,672 **T** Method and apparatus for recovery of encoded data using central value

191 6,546,139 **T** Coding apparatus and method, decoding apparatus and method, data processing system, storage medium, and signal

192 6,539,517 **T** Data transformation for explicit transmission of control information

193 6,539,119 **T** Picture coding apparatus and method thereof

194 6,535,148 **T** Method and apparatus for truncated decoding

195 6,522,785 **T** Classified adaptive error recovery method and apparatus

196 6,519,368 **T** Resolution enhancement by nearest neighbor classified filtering

197 6,519,365 **T** Encoder, decoder, recording medium, encoding method, and decoding method

198 6,516,088 **T** Image information converting apparatus

199 6,501,851 **T** Image encoding/decoding by eliminating color components in pixels

200 6,493,842 **T** Time-varying randomization for data synchronization and implicit information transmission

| Prev. List | Next List | Top | View Cart |
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Home	Quick	Advanced	Pat Num	Help

Prev. List	Next List	Bottom	View Cart

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[Prev. 50 Hits]

[Next 50 Hits]

[Jump To]

[Refine Search]   IN/"kondo" AND AN/sony and in/tetsujiro

PAT. NO.		Title
201	6,486,885 **T**	Memory device and method
202	6,483,546 **T**	Picture information converting apparatus, picture information converting method, and television receiver
203	6,483,545 **T**	Information signal processing apparatus, picture information converting apparatus, and picture displaying apparatus
204	6,480,630 **T**	Encoding and decoding different resolution video signals for display on plural units
205	6,477,278 **T**	Image coding apparatus, image coding method, image decoding method, image decoding apparatus, image data transmitting method and recording medium
206	6,473,876 **T**	Method and apparatus for encoding of bitstreams using rotation
207	6,463,179 **T**	Image compression and decompression based on a flat pixel group level, group pixel coorindinate positions, and the number of pixels for the group
208	6,463,178 **T**	Image processing device and method, and transmission medium, transmission method and image format
209	6,449,591 **T**	Learning apparatus, learning method, recognition apparatus, recognition method, and recording medium
210	6,442,297 **T**	Storage apparatus and writing and/or reading methods for use in hierarchical coding
211	6,438,267 **T**	Image compression method
212	6,433,828 **T**	Picture conversion using field-by-field vertical inversion dependent upon the type of picture signal to be outputted
213	6,430,524 **T**	Data processing method and apparatus

214 6,421,144 **T** Picture encoding apparatus and method

215 6,418,548 **T** Method and apparatus for preprocessing for peripheral erroneous data

216 6,418,233 **T** Motion determining apparatus and determining method

217 6,414,717 **T** Picture converting apparatus, picture converting method, learning apparatus, learning method, and record medium

218 6,408,097 **T** Picture coding apparatus and method thereof

219 6,404,924 **T** Image processing apparatus and method

220 6,396,954 **T** Apparatus and method for recognition and apparatus and method for learning

221 6,389,562 **T** Source code shuffling to provide for robust error recovery

222 6,385,250 **T** Image processing apparatus and image processing method

223 6,385,249 **T** Data converting apparatus, method thereof, and recording medium

224 6,381,369 **T** Image coding apparatus, image coding method, image decoding method, image decoding apparatus, image data transmitting method and recording medium

225 6,370,546 **T** First information processing device directly accessing, updating second information process device and vice versa via transmission bus management authority

226 6,363,118 **T** Apparatus and method for the recovery of compression constants in the encoded domain

227 6,356,310 **T** Signal converting apparatus and method for converting a first digital picture into a second digital picture having a greater number of pixels than the first digital picture

228 6,351,494 **T** Classified adaptive error recovery method and apparatus

229 6,339,615 **T** Picture encoding device, picture encoding method, picture decoding device, picture decoding method, and recording medium

230 6,335,988 **T** Method and apparatus for separating/generating background and motion object planes

231 6,332,042 **T** Apparatus and method for encoding and decoding data in a lossy transmission environment

232 6,330,344 **T** Image processing device and method employing motion detection to generate improved quality image from low resolution image

233 6,324,304 **T** Picture coding apparatus and method thereof

234 6,323,905 **T** Picture conversion apparatus picture conversion method learning apparatus and learning method

235 6,320,910 **T** Apparatus for hierarchical encoding of digital image signals with improved encoding efficiency

236 6,311,297 **T** Apparatus and method for mapping an image to blocks to provide for robust error recovery in a lossy transmission environment

237 6,307,979 **T** Classified adaptive error recovery method and apparatus

238 6,307,560 **T** Classified adaptive spatio-temporal format conversion method and apparatus

239 6,298,085 **T** Source encoding using shuffling of data to provide robust error recovery in a burst error-environment

240 6,297,855 **T** Signal conversion apparatus and method

241 6,295,008 **T** Method and apparatus for truncated decoding

242 6,292,591 **T** Image coding and decoding using mapping coefficients corresponding to class information of pixel blocks

243 6,292,590 **T** Dynamic coding with exchanging pixels

244 6,288,654 **T** Data conversion apparatus, data conversion method, and recording medium

245 6,285,714 **T** Image signal interpolating apparatus
246 6,285,712 **T** Image processing apparatus, image processing method, and providing medium
      therefor
247 6,282,684 **T** Apparatus and method for recovery of data in a lossy transmission environment
248 6,278,806 **T** Storage apparatus and storage method
249 6,275,617 **T** Method and apparatus for separating/generating background and motion object planes
250 6,266,454 **T** Device and method for processing, image and device and method for encoding image

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Home	Quick	Advanced	Pat Num	Help

Prev. List	Next List	Bottom	View Cart

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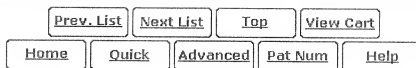[Prev. 50 Hits]

[Next 50 Hits]

[Jump To]

[Refine Search]   IN/"kondo" AND AN/sony and in/tetsujiro

PAT. NO.		Title
251	6,266,371 **T**	Motion vector detecting apparatus and method
252	6,263,468 **T**	Apparatus and method for partial buffering transmitted data to provide robust error recovery in a lossy transmission environment
253	6,263,108 **T**	Apparatus and method for recovery of lost/damaged data in a bitstream of data based on compatibility of adjacent blocks of data
254	6,263,105 **T**	Image processing apparatus and method
255	6,252,611 **T**	Storage device having plural memory banks concurrently accessible, and access method therefor
256	6,233,019 **T**	Image converter and image converting method for improving image quality
257	6,219,456 **T**	Picture coding apparatus and method thereof
258	6,215,421 **T**	Coding apparatus and method, decoding apparatus and method, data processing system, and storage medium
259	6,212,663 **T**	Apparatus and method for recovery of quantization codes in a lossy transmission environment
260	6,201,833 **T**	Motion determining apparatus, method thereof, and picture information converting apparatus
261	6,201,741 **T**	Storage device and a control method of the storage device
262	6,198,770 **T**	Image coding and decoding using mapping coefficients corresponding to class information of pixel blocks
263	6,195,464 **T**	Picture coding apparatus and method thereof

264 6,195,463 **T** Multiresolution image processing and storage on a single chip

265 6,192,161 **T** Method and apparatus for adaptive filter tap selection according to a class

266 6,192,076 **T** Image coding and decoding using mapping coefficients corresponding to class information of pixel blocks

267 6,181,632 **T** Multiple memory bank device and method for image processing

268 6,178,266 **T** Method and apparatus for the recovery of compression constants in the encoded domain

269 6,170,074 **T** Source coding to provide for robust error recovery

270 6,163,868 **T** Apparatus and method for providing robust error recovery for errors that occur in a lossy transmission environment

271 6,160,845 **T** Picture encoding device, picture encoding method, picture decoding device, picture decoding method, and recording medium

272 6,154,761 **T** Classified adaptive multiple processing system

273 6,151,416 **T** Method and apparatus for adaptive class tap selection according to multiple classification

274 6,134,348 **T** Image processing apparatus and method

275 6,119,048 **T** Integrated circuit for processing digital signal

276 6,115,073 **T** Signal converting apparatus and method using a class decision circuit

277 6,112,205 **T** Data processing equipment and method for classifying data into classes in accordance with a plurality of thresholds for quantizing data

278 6,108,451 **T** Picture coding apparatus and method thereof

279 6,078,352 **T** Stereoscopic viewing device and stereoscopic viewing method

280 6,072,837 **T** Quantizing apparatus and quantizing method

281 6,058,217 **T** Image coding apparatus for coding an image of a component signal

282 6,057,885 **T** Picture information converting apparatus and method thereof and sum-of-product calculating circuit and method thereof

283 6,037,970 **T** Videoconference system and method therefor

284 6,016,164 **T** Image signal interpolating apparatus

285 6,014,174 **T** Picture encoding apparatus, picture encoding method, picture encoding and transmitting method, and picture record medium

286 5,977,996 **T** Storage device for storing hierarchically coded data and access method thereof

287 5,973,745 **T** Video signal encoding method, video signal encoding apparatus, video signal transmitting method, and recording medium

288 5,966,183 **T** Signal converter and signal conversion method

289 5,966,179 **T** Information signal encoding apparatus, encoding method thereof, information signal decoding method, and information signal record medium thereof

290 5,959,692 **T** Television-signal processing apparatus and television-signal processing

291 5,959,676 **T** Video signal encoding method, video signal encoding apparatus, video signal transmitting method, and recording medium

292 5,956,089 **T** Picture encoding apparatus, picture encoding method, picture encoding and transmitting method, and picture record medium

293 5,946,044 **T** Image signal converting method and image signal converting apparatus

294 5,940,539 **T** Motion vector detecting apparatus and method

295 5,940,132 **T** Image signal converting apparatus

296 5,930,394 **T** Picture coding apparatus and method thereof
297 5,926,212 **T** Image signal processing apparatus and recording/reproducing apparatus
298 5,912,708 **T** Picture signal encoding device, picture signal encoding method, picture signal decoding device, picture signal decoding method, and recording medium
299 5,903,481 **T** Integrated circuit for processing digital signal
300 5,886,794 **T** Picture encoding apparatus

| Prev. List | Next List | Top | View Cart |

| Home | Quick | Advanced | Pat Num | Help |

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Home	Quick	Advanced	Pat Num	Help

Prev. List	Next List	Bottom	View Cart

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[Prev. 50 Hits]

[Next 50 Hits]

[Jump To]

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PAT. NO.		Title
301	5,878,168 **T**	Method and apparatus for picture encoding and decoding
302	5,870,434 **T**	Apparatus and method for quantizing a digital signal based on quantizing steps including odd-numbered steps
303	5,859,667 **T**	Hierarchical encoding and decoding apparatus for a digital image signal
304	5,852,470 **T**	Signal converting apparatus and signal converting method
305	5,850,261 **T**	Efficient variable length encoder and decoder
306	5,841,375 **T**	Information signal encoding apparatus, encoding method thereof, information signal decoding method, and information signal medium thereof
307	5,835,138 **T**	Image signal processing apparatus and recording/reproducing apparatus
308	5,825,313 **T**	Information signal encoding apparatus, encoding method thereof, information signal decoding method, and information signal record medium thereof
309	5,809,175 **T**	Apparatus for effecting A/D conversation on image signal
310	5,781,238 **T**	Information signal encoding apparatus, encoding method thereof, information signal decoding method, and information signal record medium thereof
311	5,767,986 **T**	Picture encoding apparatus and method
312	5,764,305 **T**	Digital signal processing apparatus and method
313	5,754,692 **T**	Picture coincidence detecting apparatus and method
314	5,748,235 **T**	Imaging apparatus including means for converting red, green, and blue signal components of standard resolution to respective high resolution signal components
315	5,739,873 **T**	Method and apparatus for processing components of a digital signal in the temporal

and frequency regions

316 5,734,433 **T** Picture encoding apparatus, picture encoding method, picture encoding and transmitting method, and picture record medium

317 5,706,367 **T** Transmitter and receiver for separating a digital video signal into a background plane and a plurality of motion planes

318 5,706,009 **T** Quantizing apparatus and quantizing method

319 5,703,652 **T** Information signal encoding system and method for adaptively encoding an information signal

320 5,703,649 **T** Digital video signal coding apparatus and method, and coded video signal decoding apparatus and method

321 5,666,164 **T** Image signal converting apparatus

322 5,663,764 **T** Hierarchical encoding and decoding apparatus for a digital image signal

323 5,627,581 **T** Encoding apparatus and encoding method

324 5,612,751 **T** Image collating method and apparatus

325 5,610,998 **T** Apparatus for effecting A/D conversion on image signal

326 5,610,658 **T** Motion vector detection using hierarchical calculation

327 5,598,214 **T** Hierarchical encoding and decoding apparatus for a digital image signal

328 5,576,772 **T** Motion vector detection apparatus and method

329 5,555,465 **T** Digital signal processing apparatus and method for processing impulse and flat components separately

330 5,534,931 **T** Encoding method and apparatus of digital video signal

331 5,528,606 **T** Error correcting apparatus

332 5,517,588 **T** Digital data conversion equipment and a method for the same

333 5,517,245 **T** High efficiency encoding and/or decoding apparatus

334 5,499,057 **T** Apparatus for producing a noise-reducded image signal from an input image signal

335 5,495,298 **T** Apparatus for concealing detected erroneous data in a digital image signal

336 5,495,297 **T** Signal converting apparatus

337 5,488,618 **T** Error detecting apparatus

338 5,481,554 **T** Data transmission apparatus for transmitting code data

339 5,469,216 **T** Apparatus and method for processing a digital video signal to produce interpolated data

340 5,453,800 **T** Apparatus for judging a hand movement of an image

341 5,444,487 **T** Adaptive dynamic range encoding method and apparatus

342 5,422,673 **T** Video camera with automatic focus control

343 5,406,334 **T** Apparatus and method for producing a zoomed image signal

344 5,404,178 **T** Noise eliminating circuit

345 5,379,072 **T** Digital video signal resolution converting apparatus using an average of blocks of a training signal

346 5,291,283 **T** Decoding apparatus of a compressed digital video signal

347 5,289,274 **T** Electronic image stabilization apparatus

348 5,241,381 **T** Video signal compression using 2-d ADRC of successive non-stationary frames and stationary frame dropping

349 5,233,422 **T** Apparatus for selectively enlarging or reducing an area of a reproduced television

picture

350 5,196,931 **T** Highly efficient coding apparatus producing encoded high resolution signals
reproducible by a VTR intended for use with standard resolution signals

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Prev. 50 Hits

Jump To

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PAT. NO.		Title
351	5,193,003 T	Apparatus for decoding digital video data with small memory requirement
352	5,142,272 T	Method and apparatus for processing display color signal
353	5,068,726 T	Coding apparatus that temporally interpolates block data and selects transmission mode
354	5,049,990 T	Highly efficient coding apparatus
355	5,023,710 T	Highly efficient coding apparatus
356	4,953,023 T	Coding apparatus for encoding and compressing video data
357	4,947,249 T	Apparatus in which subsampling and block coding are both employed for coding digital video data
358	4,910,594 T	Method and apparatus for adaptively compressing a video signal in accordance with the valves of individual pixels
359	4,890,161 T	Decoding apparatus
360	4,845,560 T	High efficiency coding apparatus
361	4,802,005 T	High efficiency encoding system
362	4,788,589 T	Method and apparatus for transmitting video data
363	4,777,530 T	Apparatus for detecting a motion of a picture of a television signal
364	4,729,021 T	High efficiency technique for coding a digital video signal
365	4,722,003 T	High efficiency coding apparatus
366	4,710,811 T	Highly efficient coding apparatus for a digital video signal
367	4,703,352 T	High efficiency technique for coding a digital video signal
368	4,703,351 T	Apparatus for an efficient coding of television signals

369 4,677,476 **T** Method for detecting a movement of a television signal
370 4,661,846 **T** Apparatus for detecting a movement of a digital television signal

Prev. List	Top	View Cart

Home	Quick	Advanced	Pat Num	Help